

## CHARACTERISTICS & ADVANTAGES

Strong gelling catalyst suitable for HCFO-1233zd(E) blown polyurethane foams

- Excellent storage stability with HCFO-1233zd(E) containing polyol blend
- Improve surface cure (high adhesive strength, reduced friability)
- Higher selectiveness in gelling reaction catalysis

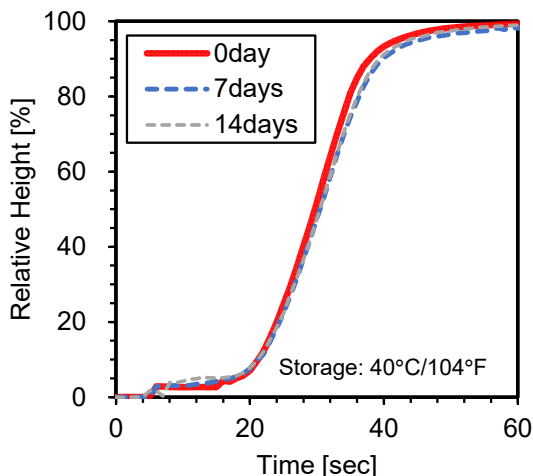


Fig. Change in reaction profile  
(1233zd(E)/H<sub>2</sub>O blown foam)

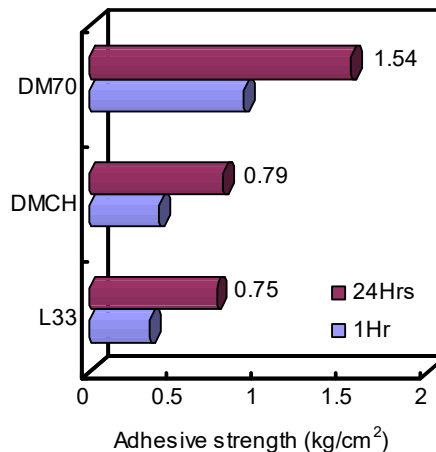


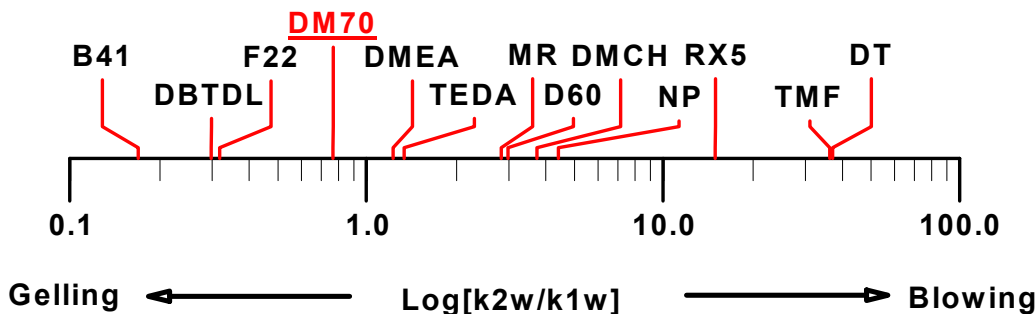
Fig. Comparison of Adhesion  
(25°C/77 °F, 245fa/H<sub>2</sub>O blown foam)

- **Reactivity drift is minimal with 1233zd(E).**

- **DM70 provides excellent adhesion.**

(Polyurethanes Expo 2003, Conference Proceedings, p.284~292)

## Catalytic Activity



## Typical dosage level

- Rigid foams: 1.2 pbw (providing similar reactivity as 1.0pbw of DMCHA)
- Flexible foams: 1.5 pbw (providing similar reactivity as 1.0pbw of TEDA-L33)

## **APPLICATIONS**

- Rigid foam (Construction board, sandwich panel and spray foam)
- Fast cure catalyst for polyether polyol based shoe sole system
- Integral skin foam (All water and HCFO-1233zd(E) blown system)
- Internal cure catalyst for polyester polyol based slabstock flexible foam

## **TYPICAL PROPERTIES**

Item	Physical data
Amine Value (mgKOH / g)	393~423
Water content (%)	0.7 Maximum
Appearance	Yellowish
Specific Gravity (Water=1, @20°C/68°F)	1.04
Viscosity (mPa.s, @25°C/77°F)	10
Freezing Point (°C/°F)	<-10/<14
Boiling Point (°C/°F)	198~205/388~401
Vapor Pressure (Pa, @20°C/68°F)	<13
Vapor Density (air=1)	2.85
Autoignition temperature (°C/°F)	Not Available
Flash Point (°C/°F)	113/235
Solution in water	Soluble
pH (10%aq., 20°C/68°F)	10.7
Calculated OH number (mgKOH/g)	542.4

Typical properties; not to be construed as specifications.

## **AVAILABILITY**

- 200kg in 200L drum
- 18kg in 20L pail

Samples are available upon request

## **CONTACT INFORMATION**

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